



Recombinant Rat Neurofilament light polypeptide (Nefl)

Product Code	CSB-MP015688RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P19527
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	SSFSYEPYF STSYKRRYVE TPRVHISSVR SGYSTARSAY SSYSAPVSSS LSVRRSYSSS SGSLMPLEN LDLSQVAIS NDLKSIRTQE KAQLQDLNDR FASFIERVHE LEQQNKVLEA ELLVLRQKHS EPSRFRALYE QEIRDLRLAA EDATNEKQAL QGEREGLEET LRNLQARYEE EVLSREDAEG RLMEARKGAD EAALARAELE KRIDSLMDEI AFLKKVHEEE IAELQAQIQY AQISVEMDVS SKPDLAALK DIRAQYEKLA AKNMQNAEEW FKSFRFTVLTE SAAKNTDAVR AAKDEVSESR RLLKAKTLEI EACRGMNEAL EKQLQELEDK QNADISAMQD TINKLENELR STKSEMARYL KEYQDLLNVK MALDIEIAAY RKLLEGEETR LSFTSVGSIT SGYSQSSQVF GRSAYSGLQS SSYLMSARAF PAYYTSHVQE EQSEVEETIE ATKAEAKDE PPSEGEAE EKEKEEGEEE EGAE EEEAAK DESEDAKEEE GGE GEEEDTK ESEEEKKEE SAGEEQAACK KD
Source	Mammalian cell
Target Names	Nefl
Protein Names	Recommended name: Neurofilament light polypeptide Short name= NF-L Alternative name(s): 68 kDa neurofilament protein Neurofilament triplet L protein
Expression Region	2-542
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.